



AGM
GLOBAL
VISION

F14

FUSION I² NIGHT VISION & THERMAL TACTICAL MONOCULAR

The AGM F14 Fusion Night Vision Tactical Monocular combines I² and thermal imaging technologies. The F14 bi-spectrum monocular is a device that can observe and search targets at night, in darkness, under extreme environments such as smoke, fog, rain, snow, etc. It can be widely applied to scenarios including patrol, search and rescue, drug interdiction, and suspect apprehension. Due to its waterproof capability the device performs well even in severe weather conditions and challenging environments.

The AGM F14 can be outfitted with either a Gen 2+ or Gen 3 high-performance image intensifier tube (IIT) and 12 μ m high-sensitivity thermal detector with 640x512 resolution. The F14 can be used as hand-held device or mounted on a helmet. The user-friendly interface, comfortable and ergonomic operating controls makes adoption and application of the device incredibly simple. The device offers different variants of image view: thermal, I² night vision, and enhanced fusion image that can be easily adapted depending on different environmental conditions. The F14 is also equipped with manual gain control, which adjusts the image brightness, providing the highest possible image quality even in changing light conditions. The monocular uses two 18650 rechargeable Lithium battery in the external holder for up to 8-hours of operating time in fusion image mode. In I² night vision mode device can run more then 60 hours.

- Bi-spectrum image fusion and object highlight
- Detail enhancement and target recognition
- Selection of thermal view channel, I² night vision channel, or both them combined with multiple fusion modes switchable
- 12 μ m, 640x512 high-sensitivity thermal detector
- Digital zoom in thermal channel
- Azimuth and Pitch/Inclination Indication
- Brightness and contrast image adjustment
- Extra large exit pupil diameter (15mm)
- Low power consumption. Up to 8 hours continuous running in fusion mode and more then 60 hours operation in I² night vision mode
- Aviation plug for external power supply and video output
- Waterproof
- Limited 3-Year Warranty



Equipment described herein is subject to US export regulations and may require a license prior to export. Diversion contrary to US law is prohibited.

SPECIFICATIONS

Detector Type	12 µm VOx Uncooled Focal Plane Arrays
Resolution	640x512
Refresh Rate	50 Hz
Response Waveband	8 µm to 14 µm
Thermal Lens Focal Length	16 mm
Thermal Field of View (HxV)	25.8° x 19.1°
Digital Zoom	1x, 2x, 4x, 8x
Observation Distance	1,500 m (human detection)
Flat Field Correction (FFC)	Manual
Palettes	White Hot/Black Hot/Orange Hot, Outline, Highlighting, Thermal Image, Breath
Video Output	Yes (via aviation plug)
I ² Night Vision Sensor	Gen 2+ or Gen 3 Image Intensifier Tube
I ² Night Vision Module Manual Gain Control	Yes
I ² Night Vision Module Lens Focal Length	25 mm
I ² Night Vision Module Field of View	40°
Optical Magnification	1x
Diopter Adjustment	-3.5 to +2.5 dpt
Exit Pupil Diameter	15 mm
Eye Relief	25 mm
Bright Light Cut-Off	Yes
Infrared Illuminator	Yes
Battery Type	Two 18650 rechargeable battery (external battery holder)
Battery Operating Time	More than 8 hours continuous running (fusion image mode) More than 60 hours continuous running (I ² night vision only)
Battery Capacity Display	Yes
External Power	5 VDC/2 A (via aviation plug)
Working Temperature	-40°C to 60°C (-40°F to 140°F)
Protection Level	IP67 (Waterproof)
Dimensions	100 x 71 x 86 mm (3.9 x 2.8 x 3.4 in)
Weight (w/o batteries)	380 g (0.84 lb)
Package Includes	Monocular, Battery Holder, Two 18650 Lithium Batteries, Helmet Support Kit, Video Cable, Hard Carrying Case, User Manual

Specifications are subject to change without notice.



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